

## BASF Ultramid® 8202 L Intermediate PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Description: Ultramid 8202 L-Intermediate is an unreinforced, low viscosity, non-lubricated PA6 injection molding homopolymer exhibiting excellent melt fluidity for filling thin sections. It is available in natural, heat stabilized and pigmented versions. It combines good strength, stiffness, and toughness as well as excellent heat, chemical and abrasion resistance. Applications: gears, fittings, casters, bearings, clips, fasteners, plugs, caps, and filter bowls. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-8202-L-Intermediate-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-8202-L-Intermediate-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption at Equilibrium	1.6 %	1.6 %	24 hour; ASTM D570
	2.7 %	2.7 %	50% RH; ASTM D570
	9.5 %	9.5 %	Saturation; ASTM D570
Linear Mold Shrinkage	0.0305 cm/cm	0.0305 in/in	1/8" Bar

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
	@Temperature 121 °C	@Temperature 250 °F	
	30.0 MPa	4350 psi	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	36.0 MPa	5220 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	110 MPa	16000 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Yield	>= 100 %	>= 100 %	ASTM D638
	16 %	16 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	35 %	35 %	

Mechanical Properties	@Temperature 80.0 °C Metric	@Temperature 176 °F English	Comments
	40 %	40 %	
	@Temperature 121 °C	@Temperature 250 °F	
Flexural Strength	35.0 MPa	5080 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	155 MPa	22500 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.740 GPa	107 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.66 GPa	531 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 285 °C	464 - 545 °F	
Mold Temperature	65.0 - 80.0 °C	149 - 176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	Black	
Commercial Status	North America	

## Contact Songhan Plastic Technology Co.,Ltd.

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